

# P Aloe vera

## Common Name(s)

Aloe, Bitter Aloes

## How Used

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	Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	-D-GLUCITOL	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.	
0	1,1,2-TRIPHENYL-CYCLOPROPANE	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	1,1-BIS-(2-HYDROXY-3,5-DIMETHYL-PHENYL)-2-METHYL-PROPANE	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	1,8-DIHYDROXYANTHRACENE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.	
0	10-HYDROXYALOIN-A	Juice	--	3535		Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. Phtochemistry, 45(7): 1519-1522.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	10-HYDROXYALOIN-B		Juice	--	2172	Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1519-1522.
0	15-METHYL-HEXADECANOIC-ACID		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.
0	2(3H)-BENZOTHIAZOLONE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.
0	2-METHYL-2-PHYTYL-6-CHROMANOL		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.
0	3,3'-BIS-P-MENTHANE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.
0	4-HYDROXY-3,5-DI-TERT-BUTYL-BENZALDEHYDE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.
0	7-HYDROXY-6'-O-P-COUMAROYL-ALOIN-A		Leaf	--	--	Rauwald, H. W. 1987. New Hydroxyaloins: The 'Periodate-Positive' Substance from Cape Aloes and Cinnamoyl Esters from Curacao Aloes. <i>Pharm. Weekbl. (Sci. Ed.)</i> 9(4): 215.
0	7-HYDROXY-6'-O-P-COUMAROYL-ALOIN-B		Leaf	--	--	Rauwald, H. W. 1987. New Hydroxyaloins: The 'Periodate-Positive' Substance from Cape Aloes and Cinnamoyl Esters from Curacao Aloes. <i>Pharm. Weekbl. (Sci. Ed.)</i> 9(4): 215.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	7-HYDROXY-8-O-METHYL-ALOIN-A		Juice --	2143		Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1519-1522.
0	7-HYDROXY-8-O-METHYL-ALOIN-B		Juice --	1608		Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1519-1522.
0	7-HYDROXY-CHROMONE		Plant --	--		Pakistan Encyclopedia Planta Medica. 1986.
0	7-HYDROXYALOIN		Plant --	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	8-C-GLUCOSYL-(S)-ALOESOL		Juice --	50.9		Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1511-1513.
0	8-C-GLUCOSYL-7-O-METHYL-(S)-ALOESOL		Juice --	--		Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1511-1513.
0	8-C-GLUCOSYL-7-O-METHYL-(S)-ALOESOL		Leaf --	--		Okamura, N., Asai, M., Hine, N., Yagi, A. 1996. High-Performance Liquid Chromatographic Determination of Phenolic Compounds in Aloe Species. <i>J. Chromatogr.</i> 746(2): 225-231.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	8-C-GLUCOSYL-7-O-METHYL-ALOEDIOL	Juice	--	71.6		Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1511-1513.
0	8-C-GLUCOSYLCROMONE-ALOERESIN-B	Plant	--	--	Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.	
0	8-METHYL-TOCOL	Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	8-[C-BETA-D-[2-O-(TRANS)-CINNAMOYL]-GLUCOPYRANOSYL]-2-[(R)-2-HYDROXYPROPYL]-7-METHOXY-5-METHYL-CHROMONE Leaf		--	13.1	Hutter, J. A., Salman, M., Svinoha, W. B., Satsangi, N., Williams, R. F., Streeper, R. T., Weintraub, S. T. 1996. Antiinflammatory C-Glucosyl Chromone from Aloe barbadensis. <i>J. Nat. Prod.</i> , 59(5): 541-543.	
0	9-PROPOXYL-METHOXY-METHYL-PHENANTHRENE	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	
14	ACEMANNAN	Leaf	--	--		
14	ACEMANNAN	Juice	--	--	Lee, S. Y., Ryu, I. W., Shim, C. S. 1997. Purification and Characterization of Bioactivity Compound Acemannan from Aloe vera. <i>Korean J. Pharmacog.</i> , 28(2): 65-71.	
3	ALANINE	Leaf	15769	15769	0.737970393738035	
0	ALBUMIN	Leaf	1	5	Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry	
0	ALDOPENTOSE	Leaf	--	--	Wealth of India.	
0	ALEOSONE	Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	ALIINASE	Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	ALOCUTIN-A	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	ALOE-BARBENDON	Root	--	9		Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. Phytochemistry, 45(6): 1279-1282.
0	ALOE-CHRYSONE	Leaf	--	--		Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. Phytochemistry, 45(6): 1279-1282.
24	ALOE-EMODIN	Leaf	--	45.4		
24	ALOE-EMODIN	Juice	--	--		
24	ALOE-EMODIN	Plant	--	--		
0	ALOE-EMODIN-ANTHRANOL	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	ALOE-GLYCOPROTEIN	Juice	--	--		Yagi, A., Egusa, T., Arase, M., Tanabe, M., Tsuji, H. 1997. Isolation and Characterization of the Glycoprotein Fraction with Proliferation-Promoting Activity on Human and Hamster Cells in Vitro from Aloe vera Gel. <i>Planta Medica</i> , 63(1):18-21.
0	ALOE-POLYSACCHARIDE	Leaf	--	--		Ross, S. A., El Sohly, M. A., Wilkins, S. P. 1997. Quantitative Analysis of Aloe vera Mucilaginous Polysaccharide in Commercial Aloe vera Products. <i>J. Aoac. Int.</i> 80(2): 455-457.
0	ALOEFERON	Juice	--	--		Madis, V. H., Omar, M. M., Madis, V. 1984. Aloeferon Isolation Manufacture, and Plications. Patent-US-4,861,761: 8 pp.
0	ALOENIN	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALOERESIN-C		Juice	--	--	Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from <i>Aloe barbadensis</i> (Ph. Eur. 1997). <i>Pharmazie</i> , 52(12): 962-964.
0	ALOERESIN-D		Juice	--	--	Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from <i>Aloe barbadensis</i> (Ph. Eur. 1997). <i>Pharmazie</i> , 52(12): 962-964.
0	ALOERESIN-E		Leaf	--	--	Okamura, N., Asai, M., Hine, N., Yagi, A. 1996. High-Performance Liquid Chromatographic Determination of Phenolic Compounds in <i>Aloe</i> Species. <i>J. Chromatogr.</i> 746(2): 225-231.
0	ALOERESIN-F		Juice	--	--	Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from <i>Aloe barbadensis</i> (Ph. Eur. 1997). <i>Pharmazie</i> , 52(12): 962-964.
2	ALOESIN		Juice	--	--	Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from <i>Aloe barbadensis</i> (Ph. Eur. 1997). <i>Pharmazie</i> , 52(12): 962-964.
2	ALOESIN		Plant	--	--	
2	ALOESIN		Leaf	--	--	
0	ALOESOL		Plant	--	--	
0	ALOESONE		Plant	--	--	
0	ALOETIC-ACID		Plant	--	--	Pakistan Encyclopedia Plantae Medicae. 1986.
0	ALOETIN		Plant	--	--	Pakistan Encyclopedia Plantae Medicae. 1986.
0	ALOETINIC-ACID		Plant	--	--	J.S. Glasby Dict. Pls Containing 2ndary Metabolite. 1991.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
12	ALOIN		Leaf	--	--		
0	ALOIN-A		Leaf	--	31.8	Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167.	
0	ALOIN-B		Leaf	--	31.8	Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167.	
0	ALOINOSE		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	ALOINOSIDE-A		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	ALOINS		Plant	270000	300000	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp	
0	ALPHA-CELLULOSE		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
5	ALUMINUM		Leaf	22	22	-0.756963512814621	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	AMYLASE		Leaf	--	20	Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry	
0	ANTHRACENE		Plant	--	--		
0	ANTHRANOL		Leaf	--	--	Mary, N. Y., Christensen, B. V., Beal, J. L. 1956. A Paper Chromatographic Study of Aloe, Aloin and Cascara sagrada. J. Amer. Pharm. Ass. Sci. Ed., 45: 229-232.	
0	ANTHRANOL		Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ANTHRANOL	Juice	--	--		Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of <i>Aloe barbadensis</i> . Proc. Okla. Acad. Sci. 58: 69-.
0	ANTHRANOLS	Plant	--	--		
0	ANTHRAQUINONE-GLYCOSIDE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
6	ANTHRAQUINONES	Plant	--	300000		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	ANTHROL	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	APOISE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	ARABINAN	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	ARABINOSE	Leaf	--	--		
0	ARABINOSE	Plant	--	--		
0	ARACHIDIC-ACID-METHYL-ESTER	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
12	ARACHIDONIC-ACID	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
12	ARACHIDONIC-ACID	Shoot	--	--		Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in <i>Aloe vera</i> Extracts. Plant Medica, 57(1): 38-40.

Chemical Plant Part			Low PPM	High PPM	StdDev	Reference	Citation
12	ARACHIDONIC-ACID		Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
14	ARGININE		Leaf	78216	78216	4.040361114705058	
112	ASCORBIC-ACID		Leaf	6260	6260	0.13692813428133838	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	ASPARAGINE		Leaf	--	--		Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.
3	ASPARTIC-ACID		Plant	31545	--		Pakistan Encyclopedia Planta Medica. 1986.
3	ASPARTIC-ACID		Leaf	--	--		Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.
6	BARBALOIN		Leaf	--	42400		
6	BARBALOIN		Juice	--	--		
6	BARBALOIN		Plant	--	--		Suga, T., Hirata, T. 1983. The Efficacy of the Aloe Plants Chemical Constituents and Biological Activities. Cosmet. Toiletries 98(6): 105-108.
0	BARBALOIN-A		Leaf	--	--		Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. Phytochemistry, 45(6): 1279-1282.
0	BEHENIC-ACID-METHYL-ESTER		Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
1	BENZYL-ACETONE		Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BETA-BARBALOIN			Plant	--	--
					=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp	
0	BETA-BARBALOIN			Juice	--	--
					Mukerji, B. 1953. The Indian Pharmaceutical Codex. Vol. I- Indigenous Drugs. Council of Scientific and Industrial Research, New Delhi, India.	
53	BETA-CAROTENE			Stem	107.2	7.2
				Essent.		
				Oil		
					Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.	
53	BETA-CAROTENE			Leaf	3	3
					-1.1248743086080972	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
47	BETA-SITOSTEROL			Leaf	--	--
47	BETA-SITOSTEROL			Plant	--	--
4	BRADYKININASE			Plant	--	--
28	CALCIUM			Leaf	190	4600
					-0.9454619722825477	
4	CALCIUM-OXALATE			Leaf	--	--
					Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.	
4	CALCIUM-OXALATE			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
2	CAMPESTEROL			Leaf	--	--
2	CAMPESTEROL			Plant	--	--
0	CARBOHYDRATES			Leaf	896000	896000
					2.259738229658458	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	CASANTHRANOL-I			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CASANTHRANOL-II	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
1	CATALASE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	CHLORIDE	Leaf	10	110		Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
1	CHOLESTEROL	Leaf	40	120		
1	CHOLESTEROL	Plant	--	--	Suga, T., Hirata, T. 1983. The Efficacy of the Aloe Plants Chemical Constituents and Biological Activities. Cosmet. Toiletries 98(6): 105-108.	
1	CHOLESTEROL	Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.	
20	CHOLINE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
2	CHOLINE-SALICYLATE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
24	CHROMIUM	Leaf	--	--	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.	
0	CHRYSAMMINIC-ACID	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
5	CHRYSAZIN	Leaf	--	--	Zwaving, J. H., Elema, E. T. 1976. A Comparative Investigation of Two Methods for the Determination of 1,8-dihydroxyanthracene Derivatives in Vegetable Drugs. Pharm. Weekbl. 111: 1315-.	
6	CHYSOPHANIC-ACID	Juice	--	--	Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.	
6	CHYSOPHANIC-ACID	Plant	--	--		

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6	CHRYSOPHANIC-ACID			Leaf	--	--
					Mary, N. Y., Christensen, B. V., Beal, J. L. 1956. A Paper Chromatographic Study of Aloe, Aloin and Cascara sagrada. <i>J. Amer. Pharm. Ass. Sci.</i> Ed., 45: 229-232.	
10	CHRYSOPHANOL			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
0	CHRYSOPHANOL-GLYCOSIDE			Plant	--	--
18	CINNAMIC-ACID			Plant	--	--
2	COBALT			Leaf	--	--
					Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.	
6	CONIFERYL-ALCOHOL			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
57	COUMARIN			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
0	CREATININE			Leaf	1	15
					Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry	
0	CYCLOEICOSANE			Juice	--	--
					Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	
0	CYCLOOXYGENASE			Plant	--	--
					Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.	
13	CYSTEINE			Leaf	--	--
					Yagi, A., Shida, T., Nishimura, H. 1987. Effect of Amino Acids in Aloe Extract on Phagocytosis by Peripheral Neutrophil in Adult Bronchial Asthma. <i>Jap. J. Allergol.</i> 36(12): 1094-1101.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	CYSTINE		Juice	--	--	Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of <i>Aloe barbadensis</i> . Proc. Okla. Acad. Sci. 58: 69-.
0	D-ARABINOSE		Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	D-GALACTAN		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.
0	D-GALACTOSE		Leaf	--	--	Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of <i>Aloe vera</i> Tourn. (Ex. Linn). Bangladesh J. Sci. Ind. Res. 16 1/4: 68-72.
0	D-GALACTOURONIC-ACID		Plant	--	--	
0	D-GALACTURONIC-ACID		Plant	--	--	
0	D-GALACTURONIC-ACID		Leaf	--	--	
1	D-GLUCOSE		Leaf	--	--	Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of <i>Aloe vera</i> Tourn. (Ex. Linn). Bangladesh J. Sci. Ind. Res. 16 1/4: 68-72.
0	D-MANNOSE		Leaf	--	--	Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of <i>Aloe vera</i> Tourn. (Ex. Linn). Bangladesh J. Sci. Ind. Res. 16 1/4: 68-72.
0	DECYL-CYCLOHEXANE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	DEHYDROABIETAL		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	DI-(2-ETHYLHEXYL)-PHTHALATE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	DIBUTYL-PHTHALATE	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	DIHEPTYL-PHTHALATE	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	DIOCTYL-PHTHALATE?	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	DODECYL-BENZENE	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	DODECYL-CYCLOHEXANE	Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	ELGONICA-DIMER-A	Leaf	--	7.2		Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167.
0	ELGONICA-DIMER-B	Leaf	--	2.7		Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167.
58	EMODIN	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
58	EMODIN	Leaf	--	--		Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. Phytochemistry, 45(6): 1279-1282.

Chemical Plant Part			Low PPM	High PPM	StdDev	Reference	Citation
0	FAT		Leaf	8000	8000	-0.965694190278755	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FERALOLIDE		Leaf	--	14.5		Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167.
15	FIBER		Leaf	177000	177000	0.1912434448814181	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	FOLACIN		Leaf	0.027	0.2	-1.0215226996703113	
23	FOLIC-ACID		Leaf	27	200	0.9999999999999997	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
13	FORMIC-ACID		Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
8	FRUCTOSE		Stem Essent. Oil	--	--		Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.
8	FRUCTOSE		Leaf	--	--		Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.
8	FRUCTOSE		Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	GALACTAN		Leaf	100	100		Mandal, G., Das, A. 1980. Characterization of the Polysaccharides of Aloe barbadensis, Part I. Structure of the D-Galactan Isolated from Aloe barbadensis Miller. Carbohydr. Res. 86: 247-257.
1	GALACTOSE		Plant	--	--		
1	GALACTOSE		Leaf	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	GAMOLENIC-ACID			Plant	--	--
					Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.	
0	GLOBULIN			Leaf	--	2
					Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry	
0	GLUCOGALACTOMANNAN			Leaf	--	--
3	GLUCOMANNAN			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
3	GLUCOMANNAN			Leaf	--	--
					Mandal, G., Das, A. 1980. Characterization of the Polysaccharides of <i>Aloe barbadensis Miller</i> , Part II. Structure of the Glucomannan Isolated from the Leaves of <i>Aloe barbadensis Miller</i> . <i>Carbohydr. Res.</i> 87: 249-256.	
1	GLUCOSAMINE			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
7	GLUCOSE			Leaf	280	1030
					-0.6406770531666487	
8	GLUTAMIC-ACID			Leaf	43256	43256
					0.28830994883469857	
5	GLUTAMINE			Leaf	20607	20607
8	GLYCEROL			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
12	GLYCINE			Leaf	5030	5030
					-1.4304208502349065	
0	HECOGENIN			Plant	--	--
					Pakistan Encyclopedia Planta Medica. 1986.	
0	HENEICOSANOIC-ACID-METHYL-ESTER			Juice	--	--
					Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
0	HEPTADEC-1-ENE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	HEXAURONIC-ACID		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
7	HISTIDINE		Leaf	2327	2327	-1.5303131560149847	
0	HOMONATALOIN		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	HYDROCINNAMIC-ACID		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	HYDROXYMETHYLANTHRAQUINONE		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
1	HYDROXYPROLINE		Juice	--	--	Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.	
6	IRON		Leaf	30	300	-0.1601568835092345	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
0	ISOALOERESIN-D		Leaf	--	--		
0	ISOALOESOL-D		Juice	--	--	Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. Phytochemistry, 45(7): 1511-1513.	
0	ISOBARBALOIN		Plant	--	--	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp	
0	ISOBARBALOIN		Leaf	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
0	ISOCITRIC-ACID	Leaf	--	--	Kringstad, R., Nordal, A.	1975. Lactone-Forming Acids in Succulent Plants. <i>Phytochemistry</i> , 14: 1868-1870.	
3	ISOLEUCINE	Leaf	8526	8526	-0.9114311540762737		
0	ISORABAICHROMONE	Juice	--	1457	Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A.	1997. Three Chromones of <i>Aloe vera</i> Leaves. <i>Phytochemistry</i> , 45(7): 1511-1513.	
0	KILOCALORIES	Leaf	2800	2800	-0.35152942013081173	Pedersen, M.	1987. <i>Nutritional Herbology</i> . Pederson Publishing. Bountiful, Utah. 377 pp.
0	L-ASPARAGINE	Plant	45449	--		Pakistan Encyclopedia <i>Planta Medica</i> . 1986.	
7	LAURIC-ACID	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	
0	LAURIC-ACID-METHYL-ESTER	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	
2	LEUCINE	Leaf	6952	6952	-1.4724738413689846		
13	LIGNIN	Plant	--	--		Pakistan Encyclopedia <i>Planta Medica</i> . 1986.	
27	LINOLEIC-ACID	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	
0	LINOLEIC-ACID-ETHYL-ESTER	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
0	LIPASE		Leaf	--	16	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry	
21	LUPEOL		Plant	--	--		
21	LUPEOL		Leaf	--	--		
4	LYSINE		Leaf	7748	7748	-1.1656410239523205	
0	LYSOPHOSPHATIDYL-INOSITOL		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40.	
0	M-PROTOCATECHUIC-ALDEHYDE		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
65	MAGNESIUM		Leaf	930	930	-1.233985540583036	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	MAGNESIUM-LACTATE		Plant	--	--		
14	MANGANESE		Leaf	6	0.6	-0.45888840936498615	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	MANNAN		Leaf	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	
3	MANNOSE		Leaf	--	--		
3	MANNOSE		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	MARGARIC-ACID		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	
0	MARGARIC-ACID-METHYL-ESTER		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	MONOOCTYLPHthalATE	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
3	MUCILAGE	Plant	--	--	Pakistan Encyclopedia Planta Medica.	1986.
3	MUCILAGE	Leaf	--	--	Segal, A., Taylor, J. A., Eoff III, J. C.	1968. A Re-Investigation of the Polysaccharide Material from Aloe vera mucilage. Lloydia 31(4): 423E.
1	MUCOPOLYSACCHARIDES	Plant	--	--	Pakistan Encyclopedia Planta Medica.	1986.
6	MYRISTIC-ACID	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	MYRISTIC-ACID-METHYL-ESTER	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	N-DOCOSANE	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	N-EICOSANE	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	N-HENEICOSANE	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
0	N-HEPTADECANE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	N-HEXADECANE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	N-NONADECANE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	N-OCTADECANE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	NATALOIN		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.	
0	NEOALOESIN-A		Leaf	--	6.6	Park, M. K., Park, J. H., Shin, Y. G., Kim, W. Y., Lee, J. H., Kim, K. H. 1996. Neoaloesin A: A New C-Glucofuranosyl Chromone from Aloe barbadensis. <i>Planta Medica</i> , 62(4): 363-365.	
39	NIACIN		Leaf	--	64	-0.4074895973394803	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	NIACINAMIDE		Plant	--	--		
0	NONADEC-1-ENE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	NONADEC-TRANS-5-ENE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	OCTADEC-1-ENE	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	OCTADEC-7-ENOIC-ACID	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	OCTADECA-10,13-DIENOIC-ACID-METHYL-ESTER	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	OCTADECA-6,9-DIENOIC-ACID-METHYL-ESTER	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	OCTADECA-9,12-DIENOIC-ACID-METHYL-ESTER	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
18	OLEIC-ACID	Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I.	1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.
1	OLEIC-ACID-ETHYL-ESTER	Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H.	1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	OLEIC-ACID-METHYL-ESTER	Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I.	1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	OLEIC-ACID-METHYL-ESTER		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	OLIGOSACCHARIDE		Leaf	--	--	Mandal, G., Ghosh, R., Das, A. 1984. Characterisation of Polysaccharides of Aloe barbadensis Miller: Part III. Structure of an Acidic Oligosaccharide. Indian J. Chem. 22B: 890-893.
0	OXIDASE		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.
25	P-COUMARIC-ACID		Juice	--	--	Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.
25	P-COUMARIC-ACID		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.
25	P-COUMARIC-ACID		Leaf	--	--	Doff, W. 1953. In Vitro Tuberculostatic Action of Aloe and its Most Important Components. Arzneim-Forsch 3: 627-630.
0	P-METHOXY-HYDROCINNAMIC-ACID		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.
0	P-METHOXYBENZYLACETONE		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.
13	PALMITIC-ACID		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
1	PALMITIC-ACID-ETHYL-ESTER		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	PALMITIC-ACID-METHYL-ESTER		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
2	PALMITOLEIC-ACID		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	PALMITOLEIC-ACID-METHYL-ESTER		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	PECTIC-ACID		Plant	--	--	Pakistan Encyclopedia Planta Medica. 1986.
1	PENTADECANOIC-ACID		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
7	PHENYLALANINE		Leaf	7103	7103	-0.8189293423736816
0	PHOSPATIDIC-ACID		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.
2	PHOSPHATIDYL-CHOLINE		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.
0	PHOSPHATIDYL-ETHANOLAMINE		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	PHOSPHATIDYL-INOSITOL		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in <i>Aloe vera</i> Extracts. <i>Plant Medica</i> , 57(1): 38-40.
0	PHOSPHATIDYL-SERINE		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in <i>Aloe vera</i> Extracts. <i>Plant Medica</i> , 57(1): 38-40.
4	PHOSPHORUS	Leaf	6	940	-0.7417351347095709	
2	PHYTOSTEROLS	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
30	POLYPHENOLS	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	POLYSACCHARIDE	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	POLYSACCHARIDE	Leaf	--	--		Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of <i>Aloe vera</i> . <i>Bangladesh J. Sci. Ind. Res.</i> 16: 68-72.
0	POLYSACCHARIDE	Juice	--	--		Gowda, D. C., Nellisiddaiah, B., Anjaneyalu, Y. V. 1979. Structural Studies of Polysaccharides from <i>Aloe vera</i> . <i>Carbohydr. Res.</i> 72: 201-205.
0	POLYURONIDE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
14	POTASSIUM	Leaf	100	850	-1.3023924982974464	
0	PROLINE	Leaf	3339	3339	-1.1450504019821863	
0	PROTEIN	Juice	--	25000		Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of <i>Aloe barbadensis</i> . <i>Proc. Okla. Acad. Sci.</i> 58: 69.
0	PROTEIN	Leaf	10000	57000	-1.5447289828536024	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	PROTEINASE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	PTEROYGLUTAMIC-ACID	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	PURINE	Leaf	1	56		Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry
0	QUINONE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
0	RESIN	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	RESITANNOLS	Plant	--	--		
0	RHAMNOSE	Plant	--	--		
0	RHAMNOSE	Leaf	--	--		Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.
18	RHEIN	Juice	--	--		Vittori, N., Collins, M. 1996. Production of Rhein and Rhein Derivatives for Treatment of Mycobacterial Infections.
18	RHEIN	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
15	RIBOFLAVIN	Leaf	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	SAPOGENIN	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
5	SAPONINS	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Chemical Plant Part			Low PPM	High PPM	StdDev	Reference	Citation
60	SELENIUM		Leaf	--	2.3	-0.20582736095134732	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SERINE		Leaf	23540	23540	2.8994578607835177	
4	SILICON		Leaf	22	2.2	-0.40664836341939714	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SODIUM		Leaf	40	510	-0.5567053929446788	
0	SPHINGOMYELIN		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.	
8	STEARIC-ACID		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	STEARIC-ACID-ETHYL-ESTER		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	
0	STEROIDS		Plant	--	--		
12	STIGMASTEROL		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.	
0	SULFOQUINOVOSYL-DIGLYCERIDE		Shoot	--	--	Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.	
0	TANNINS		Plant	--	--		
0	TETRADECYLBENZENE		Juice	--	--	Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.	

Chemical Plant Part			Low PPM	High PPM	StdDev	Reference	Citation
31	THIAMIN		Leaf	0.8	0.8	-1.5639990589196717	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	THREITOL		Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
4	THREONINE		Leaf	14652	14652	1.6302832433742858	
4	TIN		Leaf	11	11	-0.5530067419183887	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	TRICOSANOIC-ACID-METHYL-ESTER		Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	TRIDECYLBENZENE		Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	TRIHYDROXYMETHYLANTHRAQUINONE		Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
1	TRIOLEIN		Shoot	--	--		Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.
8	TYROSINE		Leaf	5073	5073	-0.8148273240686774	
0	UNDECYL-CYCLOHEXANE		Juice	--	--		Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
0	UREA		Leaf	10	10		Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
0	URONIC-ACID		Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
3	VALINE		Leaf	12769	12769	0.02133791872334207	

Chemical Plant Part			Low PPM	High PPM	StdDev	Reference	Citation
0	WATER		Plant	995000	995000	0.9592516998257824	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
3	XYLOSE		Leaf	--	--		
3	XYLOSE		Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
77	ZINC		Leaf	11	770	4.198735238139277	